

Contractor's Quality Control Report/Quality Assurance Report

(ER 1180-1-6)

Contract Number DACA85-01-C-0026		UPC/Project Title and Location of Work FY01 Replacement Family Housing, Fort Wainwright, Alaska
CQC Report Number 080	Date Friday August 2, 2002	Contractor Osborne Construction Company 3701 Braddock Street Fairbanks, Alaska 99707

Weather Classification:

CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts
 CLASS B Weather occurred during this shift that caused a complete stoppage of all work.
 CLASS C Weather occurred during this shift that caused a partial stoppage of work.
 CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to
 None results of previous adverse weather.
 CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to
 previous adverse manner.
 OTHER Explain.

Classification: A **Temperature:** Max +76F Min +52F **Precipitation:** sunny

Contractor/Subcontractors Work Activities Performed Today: (Attach list of equipment either idle or working as appropriate)

Reference (NAS ID No.) Activity Contractor

Work Performed This Day: (Include location and description of work performed. Refer to work performed by prime and or subcontractors by NAS activity number in the section above).

Building 1402: OCC performing general clean up around site.

Building 1404: OCC continuing pick up work and correction on stairs.

Building 1405: OCC continuing pick up & general clean up. Slayden continued plumbing rough in. ECCI continuing installation of boxes and other rough-in.

Building 1406: OCC placed concrete for stem walls and utilidor connecting 1406 to 1408.

Building 1407: OCC continuing setting wall panels on 2nd floor, building stairs and fire-blocking on 1st floor. Also installing Simpson A35 brackets.

Building 1410: OCC setting 2nd floor beams and joists.

Building 1411: OCC placed and finished concrete for footings.

Building 1408: OCC applying water proofing to branch utilidor and setting lids, sealing with oakum and mastic.

Building 1409: Slayden laying out for core drilling.

Building 1412: OCC installing sill plates and anchor bolts and stripping wall forms from mechanical room entrance and applying waterproofing.

Building 1414:

Building 1416: OCC continued applying Thoroseal waterproofing.

Building 1419:

MH 1063A: OCC forming utilidor slab from MH 1063A heading west. Slayden completed steam tie-in to main at MH 1063, setting the valve and Hyspan compensator.

OCC cleaning out utilidors between buildings 5 & 6 as well as main utilidor along Dogwood St. prior to inspection by Charlie Davenport of DPW. Slayden started demolition of Fire Hydrant at 100th and Dogwood, unable to remove from concrete below grade.

Great Northwest continued excavation of main utilidor along 100th St..

Materials Received to be Used and/or Incorporated into Project.**Quality Control Inspections Performed This Date:** (Include inspections, results, deficiencies observed, and corrective actions.)

Preparatory Prep Inspections on TS 02510 Storm Drains and TS 07310 Asphalt Shingles (see attached)

Initial

Follow-up Follow up on carpentry: QC Jim Frink continuing follow up inspection of rough carpentry in building 1405 units C & D, working with Project Engineer Jerry Love and General Foreman Matt Emerson to correct deficiencies and to consult with engineers/architects to clarify discrepancies in plans and specs.

Follow up on concrete: Rebar has adequate clearances (1-1/2" from forms, 3" from grade), supported by sufficient dobies with 40 diameters lap. Observed laborer stinging concrete incorrectly, informed concrete foreman who corrected laborer and demonstrated and instructed in proper stinging procedures.

Follow up on mechanical: Slayden continuing steam piping in utilidor 1063 to 1063A, using welding rod from plastic, water tight rod holder, using 6010 root pass, 7018 cover pass on socket welds, 6010 root pass, 6010 hot pass and 7018 cover pass on butt welds.

Follow up on mechanical: Received from Slayden, the welding x-ray report from NDE regarding the two welds which failed and which were re-done and re-x-rayed along with four other welds (see attached).

Was the construction deficiency tracking list updated this date: XYes No ☐

Contractor Quality Control/Quality Assurance Report Continued
FY01 Replacement Family Housing, Fort Wainwright Alaska
DACA85-01-C-0026

Tests Required by Plans and/or Specifications Performed and Results of Tests (CQC):

Type of Test	Method	Results
Slump, air and cylinders (see attached).		

Verbal Instructions Given/ Received: (List any instructions given by Government. Include names, reactions, and remarks.)

Verbal	Written
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Work Progress:	Are there any Contractor caused delays or potential finding of fact?	Yes	No
	Are there any Government caused delays or potential finding of fact?	Yes	No
	Are there any unforeseeable or weather related delays?	Yes	No

Remarks: (Include any visitors and miscellaneous remarks pertinent to work): In phone conversation between QC Jim Frink, General Foreman Matt Emerson, and Pete Van Husin (SBS Truss Designer) discussing the note on truss shop drawings "Rigid Ceiling applied or 6'-0" O.C. lateral bracing", Pete Van Husin did confirm that a single layer of 5/8" gypsum board screwed off to the bottom chord of the trusses at 2'-0" o.c. is considered a rigid ceiling and therefore, bottom chord bracing is not required. Quality Control from University Redi-Mix (Jack) on site for placement of concrete at MH 1063A. Informed Chief Brady of the Fort Wainwright Fire Department that OCC subcontractor Slayden P&H will be taking out of service, the fire hydrant at the corner of 100th St. and Dogwood (within OCC fenced off area). Chief Brady said he would inform his crews and that it shouldn't be a problem, and to notify him again when it is back in service. Utilidor inspection with Charlie Davenport, Steve Eldridge of Slayden and Superintendent Jeff Crawford for branch utilidors and main between buildings 1412 & 1409. Charlie Davenport approved placement of utilidor lids for these utilidors. QC verbally informed by General Foreman Matt Emerson that detail 7 of DWG A5.1 has changed per Tom Vasilatos (VP OCC). The pre-finished continuous soffit vent will now run from bottom of fascia, horizontally (not inclined with pitch of roof).

Safety: (Include any infractions of approved safety plan, safety manual, or instructions from Government personnel. Specify corrective actions taken.)
 No Discrepancies noted.

Contractor's Certification: I certify that the above report is complete and correct and that all materials and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Contract Quality Control Manager Signature Chris Seelley Date Friday August 2, 2002

Site Superintendent Signature [Signature] Date Friday August 2, 2002

Government Quality Assurance Comments

Quality Assurance Testing Performed this date? Yes ☐ No ☐

Safety Inspections performed other than noted above. ☐ No ☐

Concurs with the CQC Report? Yes ☒ No ☐

Additional comments or exceptions:

80

QAR Signature [Signature]

Date 02-06-03

Supervisor's Initial GM

Date _____

QAR

invited to prep ??

Contractor Quality Control/Quality Assurance Report Continued
FY01 Replacement Family Housing, Fort Wainwright Alaska
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Manpower and Equipment

Osborne Construction Company								
Labor			Equipment					
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Days Used
Project Manager	1	12	Ford pickup		2000	1		9
Superintendent	1	14	Chevy pickup		2000	1		12
General Foreman	1	12	Chevy pickup		2000	1		10
QCSM	1	10	Mazda Pick up		1991	1		9
QC	1	11	Grove RT60 Hydro crane			1		9
Carpenters	47	423	SBS Boom Truck			1		9
Operator	3	27	Flat-Deck Trailer		2000	1		9
Laborers	22	198						
Project Engineer	2	18						
Field Engineer	2	20						
SBS Field Engineer	1	10						
Welder	1	6						
Total Hours:		770						

Great Northwest

Labor			Equipment						
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Days Used	
Superintendent			Dodge Dsl		2000	1			
Assistant Super.						1			
Carpenters	0	0	TD 7 Dozer			1		hrs	
Labor			excavator Komatsu			1		8 hrs	
Operator	2	16	Dozer 650 H			1		8 hrs	
Surveyor			416 Excavator			1		0 hrs	
Electricians	0		Dump Truck					hrs	
FORMAN	0	0	rolling compactor			1		8 hrs	
Drivers			Water Truck			1		8 hrs	
	0	0	caterpillar JD 550			1		hrs	
			Side dumps			2		0 hrs	

Total Hours: 16

Montauk Environmental

Labor			Equipment						
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Day Use	
Enviro. Specialist			PID Sniffer		MicroTip 2000	1			
			4-door sedan			1			

Total Hours:

Stutzman Engineering

Labor			Equipment						
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Day Use	
Surveyors									
		Suburban			1			hrs	

Total Hours:

Slayden Plumbing & Heating

Labor			Equipment					
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Day Us
Superintendent	1	8	Pick up			1		8
Plumber	6	48	Pick up			1		8
Apprentices	4	32	Welding Machines			2		16
Welders	1	8						
Insulators								
Cert. Welding Inspector								
Total Hours:		96						

Contractor Quality Control/Quality Assurance Report Continued
FY01 Replacement Family Housing, Fort Wainwright Alaska
DACA85-01-C-0026

Labor			Equipment					
Classification	Number	Hours	Make/Model	Rate	Year	Number	Ea.	Hrs/Day Us
Superintendent			Excavator	Hitachi				
Operator			Semi End dump					
Drivers			Low boy					

Total Hours:

Labor			Environmental Solutions					
Classification	Number	Hours	Equipment	Make/Model	Rate	Year	Number	Ea.
Owner			Van Truck				1	0
Foreman			Cube Van truck				1	0
Air Monitor							0	0
Operator							0	0
laborers								

Total Hours:

Labor			Concrete Cutters					
Classification	Number	Hours	Equipment	Make/Model	Rate	Year	Number	Ea.
Concrete Cutters			Box Van				1	
			Air Compressors				1	

Total

Labor			ECCI (Electrical Sub)					
Classification	Number	Hours	Equipment	Make/Model	Rate	Year	Number	Ea.
Owner/foreman	1	8	Dodge Pick up					
Electrician	1	8	Chevy Pick up	½ ton	99		1	9
laborers			Bucket/Pole Setting truck				2	16

Total Hours: 16
 Sub Total: 898.0

Previous: 35,583.0

UTD: 36,481.0



CONCRETE & MASONRY ☒ Concrete ☐ Mortar ☐ Grout

Dispatch Date: August 2 2002Dispatch Time: 0700

Phone: 562-2000, Fax: 563-3953

Page 1 of 1

Client: <u>Osborne</u>	W.O. #: <u>F60001</u>
Project: <u>F101 Wainwright Family Housing Project</u>	MOA Permit # <u>-</u>
Order taken by: <u>-</u>	Requested by: <u>-</u>
Test Locations Selected by: <input checked="" type="checkbox"/> ATL <input type="checkbox"/> Contractor <input type="checkbox"/> Owner	Date: <u>-</u> Time: <u>-</u>
Tested by/date: <u>AS 8/2/02</u>	
Notification of Test Results Given To: <u>Chris Bay</u>	
Time Departed for Site: <u>0700</u>	Time Arrived Site: <u>0710</u>
Time Departed Site: <u>1135</u>	Time Arrived Back: <u>1145</u>
Standby Requested by (start/end): <u>-</u>	Date: <u>8-2-02</u>
Contractor: <u>Osborne</u>	Time: <u>1130</u>
Supplier: <u>University Redi Mix</u>	Total Pour Volume: <u>130yds</u>
Specified: <u>Strength 28 Mpa</u>	Time Pour Started: <u>0730</u>
Other: <u>-</u>	Time Pour Ended: <u>1200</u>
	Product Code: <u>-</u>
	Air <u>5-7%</u> Slump <u>50-100mm</u> w/c <u>-</u>

cnccarbn.doc

Checked by/date: _____

Today's Set No.	1	2			Location
Total Air	5.4	6.0			1) Walls of Bldg. 1406 25m S 2.5m E of NE Corner of Bldg.
Agg. Corr.	-	-			
Entrained Air	5.4	6.0			
Slump	85mm	90mm			2) Footings of Bldg. 1411 25m W of NE Corner of Bldg.
Conc. Temp.	20.5°C	20.5°C			
Pour Air Temp.	22.2°C	22.2°C			
Σ yd ³ Poured	12/18	21/27			placed by pump truck
Ticket No.	30531	30536			sampled from truck rear discharge
Size/No. Specimens	6x12/8	6x12/8			

Remarks:

Cylinders Picked Up
by/date: AS 8-3-02
site visit: TM .5
max/min temp: 75/50

☐ Unit Price ☒ T & M

003516 ACE

Preparatory Phase Checklist

Contract No.: FY01 Family Housing Fort Wainwright Alaska
 Definable Feature: TS 07310 Asphalt Shingles
 Government Rep Notified Not Available Hours in Advance _____

Date: ~~#####~~ Fri 8-2-02
 Yes _____ No _____

I. Personnel Present:

Name	Position	Company/Government
1. Chris Seeley	QC Manager	OCC
2. Jeff Crawford	Superintendent	OCC
3. <u>Daryl Peterson</u>	<u>Owner</u>	<u>A-1 Roofing</u>
4. <u>Daryn Peterson</u>	<u>Soreman</u>	<u>A-1 Roofing</u>
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____

II. Submittals

1. Review submittals and/or submittal log. Have all submittals been approved?

Yes _____ No _____ X _____

If not, what items have not been submitted?

a. Submittals are in review
 b. _____
 c. _____

2. Are all materials on hand?

Yes _____ No _____ X _____

If not, what items are missing?

a. ice shield + Felt now onsite w/ shingles
 b. on the way
 c. _____

3. Check approved submittals against delivered material. (This should be done as material arrives.)

Comments: This will be accomplished

III. Material storage

Are materials stored properly? Yes _____ No _____

If not, what action is taken? This will be accomplished

IV. Review Plans

Ice shield to be run up from roof up adjacent walls a minimum of 6". Ridge vent does not go to 2-hour wall, but will run ridge vent continuous for aesthetics.
Roofing to supply nails only, OCC to supply all other materials.
A-1 to supply shingles, Felt, Ice shield, etc.

Comments:

003517 ACE

V. Specifications

1. Review each paragraph of specifications. *Per 3.2.1, 6" endlaps unless manu states otherwise. Ice shield in valley's with be lapped 2' with inverted V valley flashing on top of ice shield. Felt underlayment to lap over ice shield min. 6". A-1 has no problem w/ ridge blocking (DWG A5.1 detail 2) is deleted. Discussed*
2. Discuss procedure for accomplishing the work. *shed roof vent also (DWG A5.1 detail 11). Accomplished. Shingles will be run up to ridge vent opening to cover all plywood. A-1 to install drip flashing (DWG A5.1 detail 2) with fascia flashing by others.*
3. Clarify any differences, Have any supplemental sketches or RFIs been issued that affect this work. *VTR flashing provided by Slagden, to be installed by A-1, does not meet 2' req of 3.3.3 and A-1 will not warranty this flashing against leaks. Superintendent to address.*

VI. Preliminary Work and Permits

Base and Miss Utility contacted, all utilities marked.

Ensure preliminary work is correct and permits are on file.

Accomplished

If not, what action is taken?

VII. Testing

N/A

1. Identify test to be performed, frequency, and by whom.

2. When required?

3. Where required?

4. Review Testing Plan.

5. Has test facilities been approved?

VIII. Safety

1. Review Hazard Analysis and applicable portion of EM 385-1-1.

A-1 to submit JHA + Safety Plan prior to starting work

2. Activity Hazard Analysis approved?

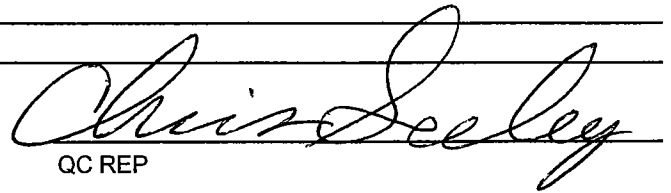
Yes

No

IX. COE comments during meeting.

Not available.

003518ACE



QC REP



KUMIN
ASSOCIATES, INC
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

July 26, 2002

FY01 REPLACEMENT FAMILY HOUSING PROJECT
DACA85-01-C-0026

Submittal Review Letter
KAI No. 20133

Osborne Construction Company
3701 Braddock Street
Fairbanks, Alaska 99707

Attn: Chris Seeley, QCSM

Re: Transmittal No. 07310-1 (Perimeter Underlayment Membrane)
Dated: 07-22-02

We received the above noted submittal via fax on 7/20/02 (Saturday). We have reviewed the material submitted. This submittal is being returned to you as stamped and signed below.

Notes as follows:

1. ArmourGard application directions indicate "end laps must be at least 15cm (6 in.). This brought to our attention a typographical error in paragraph 3.2.1 of the Specifications. The error is in the conversion of 157mm to inches. 157mm converts to 6" and not 4" as indicated. Follow manufacturers instructions of 6" of end lap.
2. This submittal review is for item 1.1.2 of the Specifications only. Other items specified in 1.1 have not been received for review.

End of Submittal Review by:
Mike Griffith, KAI

SHOP DRAWING REVIEW	
<input type="checkbox"/> NO EXCEPTIONS NOTED	RESPONSE REQUIRED PRIME CONTRACTOR(S)
<input checked="" type="checkbox"/> EXCEPTIONS NOTED: FURNISH AS CORRECTED	<input type="checkbox"/> RESUBMIT
<input type="checkbox"/> EXCEPTIONS NOTED: REVISE AND RESUBMIT	DATE <u> </u> / <u> </u> / <u> </u> BY <u> </u>
<input type="checkbox"/> UNACCEPTABLE: RESUBMIT	DATE <u> </u> / <u> </u> / <u> </u> BY <u> </u>
<input type="checkbox"/> RECORD COPY	
THIS REVIEW OF THE SHOP DRAWING DOES NOT WAIVE OR ALTER THE CONTRACT REQUIREMENTS. ANY DEVIATION FROM THE CONTRACT REQUIREMENTS MUST BE SPECIFICALLY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING AND UPON THE DRAWINGS, OR BY APPROPRIATE CHANGE ORDER.	
KUMIN ASSOCIATES, INC. DATE <u>7-26-02</u> SIGNED <u>Mike Griffith</u>	



A-1 Roofing and Insulation, Inc.

Darrell Peterson, Contractor * 2095 Frank Avenue * Fairbanks, Alaska 99701 (907) 452 Roof (FAX)
(907) 451-6958 * License # 18586 * Bonded * Insured

SAFETY REQUIREMENT

Job: FY01 - Replacement Family Housing
Sub to: Osborne Construction

Location: Ft. Wainwright, AK

Date: August 2002 to Completion

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Off Job Site

- 1 Safety meetings to be held on a weekly basis. All employees are required to attend.
- 2 Employees are required to sign attendance sheet in verification of their attendance and confirming understanding of subject matters discussed.

On Job Site

- 1 All ladders must be secured and tied off
- 2 ONE man only to each anchor
- 3 All workers to wear full harness
- 4 Hard hats worn at all times. (Wear cotton kerchief under them if they cause you to perspire. There is NO exception to this rule.)
- 5 Shirts must be worn at all times. (Wear a lightweight cotton shirt if it is hot. They will help keep you cool.)
- 6 NO material to be carried up ladder
- 7 NO alcohol consumed on the job
- 8 Absolutely drug free environment
- 9 All workers must wear safety glasses

Other Requirements

- 1 A copy of this notice must be maintained in company vehicles on job site
- 2 A copy of this notice must be posted in office
- 3 Each employee must sign and verify they have read, they understand, and they will comply with these requirement. Failure to do so will mean exclusion form the jobsite.

I have read and understand the noted requirements and with my signature confirm I will comply.

Signed this 3rd day of Aug, 2002 (print name) Darrell Peterson

Telephone Safety Numbers on back:

Signature: Darrell Peterson

Emergency Reporting of On the Job Accident

Doctor: 911

Ambulance: 911

Hospital: 911

Police: 911

Fire Dept. 911

Other:

Office: 452-7663

After Office Hours: Dottie 456-7383

Darren 452-4522

- Report accident immediately to foreman
- Foreman report accident immediately to Management
- Inform medical personnel injury is Worker's Compensation Insurance
- Obtain worker's compensation report forms from office
- Submit worker's compensation forms within three working days.

JOB HAZARD ANALYSIS (JHA)

Phase of Construction: Page one of one	Roofing FY101 - Replacement Housing FWW Subcontractor to Osborne Construction	A-1 Roofing & Insulation, Inc. PO Box 82449 Fairbanks AK 99708 (907) 452-7663
ACTIVITY	HAZARD	METHOD(S) OF PROTECTION
Installation	Slips and Falls from Roof	1. Keep roof work area clean and use catch boards at edge. 2. Review with all affected employees the fall protection plan for this project. 3. Require all employees to wear appropriate fall arrest equipment and be tied off at all times.
	Slips and Falls from Ladders	1. Inspect ladders for good condition prior to start of each shift. 2. Ladder shall be equipped with safet feet, rungs sound and in place, and rails in good condition. 3. Ladder shall have firm footing and be secured to the structure, extending 36 inches above landing. 4. Never climb or descend a ladder with anything in your hands or pockets; use hand line. 5. Never use a step ladder as a ladder, and operate only with legs spread fully apart and in a locked position.
	Slips and Falls from Scaffolding	1. Properly erected. 2. Use of fall protection. 3. Proper railing and toe boards in use.
	Cutting and Stapling the Roofing and Underlayment	1. Use proper and sharp tools. 2. Safe work habits.
	Chemical Burns from Sealants	1. Use proper PPE as recommended by the manufacturer's MSDS.
	Misunderstanding of Personnel	1. Pre-work briefing of all personnel and supervisors using all MSDS, PADS, and JHA's.
	Unsafe/unskilled forklift operator	1. Designate & authorize trained forklift operators only. 2. Provide forklift operator training with certification.
Stock Tools and Materials on Roof	Back Injuries	1. Mechanical equipment will be utilized to move tools & materials whenever possible 2. All employees ill be instructed in proper body mechanics

Preparatory Phase Checklist

Contract No.: FY01 Family Housing Fort Wainwright Alaska
 Definable Feature: TS 02510 Storm Drains
 Government Rep Notified Not available Hours in Advance _____

Date: 8-2-02
 Yes _____ No _____

I. Personnel Present:

	<u>Name</u>	<u>Position</u>	<u>Company/Government</u>
1.	Chris Seeley	QC Manager	OCC
2.	Jeff Crawford	Superintendent	OCC
3.	Steve Gergghy	PM	Great Northwest
4.	Rick Lowe		DPU Roads & Grounds
5.	Pat Driscoll		DPU
6.			
7.			
8.			

II. Submittals

1. Review submittals and/or submittal log. Have all submittals been approved? Not Required this TS

Yes _____ No _____

If not, what items have not been submitted?

- a. _____
 b. _____
 c. _____

2. Are all materials on hand? Yes _____ X _____ No _____

If not, what items are missing?

- a. Drain boxes at GNV shop
 b. _____
 c. _____

3. Check approved submittals against delivered material. (This should be done as material arrives.)

Comments: N/A

III. Material storage

Are materials stored properly? Yes _____ X _____ No _____

If not, what action is taken? _____

IV. Review Plans

Steve G. stating they may have to move curb inlet drain a few feet to maintain clearances from HCP sidewalk Ramp.
 Comments: 003524 ACE
Manholes to be bedded in classified fill whether street

V. Specifications

1. Review each paragraph of specifications.

Statzmen to layout - GNW to follow 3.4. and have culvert inspected after backfill & compaction up to top of culvert, but before going any further.

2. Discuss procedure for accomplishing the work.

Accomplished

3. Clarify any differences. Have any supplemental sketches or RFIs been issued that affect this work.

None at this time.

VI. Preliminary Work and Permits

Base and Miss Utility contacted, all utilities marked.

Ensure preliminary work is correct and permits are on file.

Dig Permit on file and approved

yes

If not, what action is taken?

VII. Testing

N/A

1. Identify test to be performed, frequency, and by whom.

Density testing per compaction Test plan

2. When required?

3. Where required?

4. Review Testing Plan.

5. Has test facilities been approved?

VIII. Safety

1. Review Hazard Analysis and applicable portion of EM 385-1-1.

Accomplished.

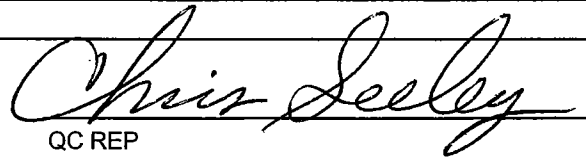
2. Activity Hazard Analysis approved?

GNW to provide prior to start of work.

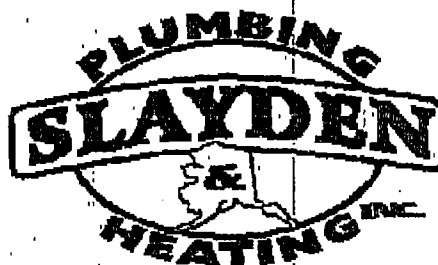
Yes

No

IX. COE comments during meeting.



QC REP



3230 Palmer / Wasilla Hwy
Wasilla, Alaska 99687

PH (907) 376-7690
FAX (907) 376-7891
E-Mail: sphlwas@mtaonline.net

Facsimile transmission

To: Chris Seeley - Osborne Confs. Fax: 907-356-2949

From: Leanne Hatt Date: 8/2/2002

Re: Welding Inspection Report Pages: 6

CC:

☐ Urgent

☐ For Review

☐ Please Comment

☐ Please Reply

Notes:

I will be mailing you to the Fairbanks PO box the originals.

Thank you,

Leanne

Page 1

8/2/2002

003527 ACE

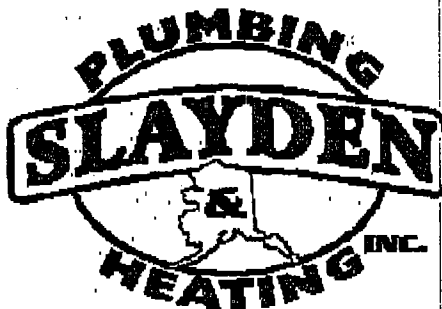
700/100 d

1682 968 206 T(XV4)

SLAYDEN PLUMBING

11:50

18817002-70-90A



3230 E Palmer / Wasilla Hwy
Wasilla, Alaska 99687

PH (907)376-7690
FAX (907)376-7891
E-Mail: sphiwas@mtaonline.net

August 2, 2002

Osborne Construction
PO Box 73370
Fairbanks, AK 99707

Attention: Chris Seeley
Re: Fy-01 Ullitor

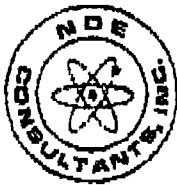
Please see attached Welding Inspection report. I have made (8) copies for your distribution. If you have any questions, call us at 907-376-7690, or our North Pole number 488-3359.

Thank you,

Leanne Hatt

Leanne Hatt
Project Assistant

PAGE 02



**CERTIFIED
REPORT OF NONDESTRUCTIVE TESTING
VISUAL EXAMINATION**

CUSTOMER Slayden Plumbing & Heating		DATE 27-Jul-02	
ADDRESS 1999 Richardson Highway, North Pole AK 99705		SUPPORT NO. 072702-01	
JOB OR PROJECT Ft. Wainwright Housing Project		PLAN OR DWG NO. N/A	
WELDED CONDITION As Welded	HEAT NO. N/A	WELDED BY [] APTX [] N/A	MATERIAL TYPE CS
EXAMINATION STANDARD ASME Section V	ACCEPTANCE STANDARD ANSI B31.1	NDE PROCEDURE NO. NDE-VT-001	
TOTAL AMOUNT EXAMINED 100% VT	TYPE OF WORK NEW [] REPAIR []	NO. ACCEPTED All	NO. REJECTED 0

Visual inspection is being performed on 100% of all full penetration, socket and o-let welds on the steam and condensate piping in accordance with applicable codes and specifications. Welds not meeting the acceptance criteria of ANSI / ASME B31.1 are being marked and repaired as the work progresses. Radiography has been performed on nine welds made by Scott McCumby and Earl Hutchinson of which, two were rejected, one for porosity and one for incomplete penetration. Both welds were made by Earl Hutchinson, these welds were repaired and radiography was performed on them plus an additional four welds as required by ANSI / ASME B31.1, all welds were found acceptable. Visual inspection has not found any trends toward unacceptable practices, most welds were inspected after the welds were complete but random inspections during welding has found that the parameters of welding procedure SPT-01 are being followed. Daily notes are being kept and will be converted to a final inspection report when all welding is complete. Radiography requirements will tracked to assure the correct percentage of welds are radiographed, this is difficult to forecast as socket welds are now being used on the smaller diameter pipe and we have not been able to forecast an accurate amount of full penetration welds vs. socket welds.

TECHNICIAN <i>[Signature]</i>	LEVEL DA 1446	ASSISTANT N/A
TECHNICIAN N/A	LEVEL	ASSISTANT N/A

START TIME: _____ TOTAL MILEAGE: _____
 FINISH TIME: _____
 STANDBY: _____ Hrs CUSTOMER: _____
 TRAVEL: _____ Hrs
 LUNCH: _____ Hrs
 TOTAL TIME: _____ Hrs

PAGE 1 OF 1

SIGNATURE

FORM VT 1000 07/02

003529 ACE

1003/007

(FAX) 1 907 376 7891

SLAYDEN PLUMBING

11:50

AUG-02-2002 (FRI)

P.215



Quality through Integrity

F.O. Box 221051
Anchorage, Alaska 99522-1051
Office: (907) 345-5567 • Fax (907) 344-7353

1218 Gilmore Trail
Fairbanks, Alaska 99712
Office: (907) 474-2048 • Fax: (907) 474-2018

Radiography Report

[illegible]

Date 6/29/02 Report No. 1
 Page 1 of 2
 Customer BBB CONSULTANTS
 Job Number _____
 Job Location FT. WASHINGTON AK.
 Job Name BBB-C-E-0036
 Time at Job Site 1:10 Driving Time N/A

TECHNIQUE INFORMATION

Pipe Diameter 2" Material Thickness .084
Isotope 192 Curies 50 Exp. Time 4" 50"
Source to Film Distance 22"
Source to Object Distance 19.675
Physical Source Size .125 x .116
Effective Focal Spot .152
Geometric Unsharpness Factor (UG) .019
No. Film per cassette 1 No. of Exposures/weld 2
Pace/parameter 12 Size .340
Exposure Technique DW B DW
STAND OFF
Fb Screen Front .010 Back .010
Dev. Time 6:30 Dev Temp. 68

DEFECT ABBREVIATIONS

P- Porosity	SL- Slag Line	TI- Tang. Incl
C- Crack	CC- Center Crack	SI- Slag Inclusion
CV- Concavity	CM- Convexity	
IF- Incomplete Fusion		IP- Incomplete Penetration
BT- Burn Through		IL- Internal Under cut
EU- External Undercut		
IPD- Incomplete penetration due to High Low		
GP- Gas pocket		SP- Spherical Porosity
CP- Cluster Porosity		WP- Wormhole Porosity
HB- Hollow Bead		

1.	JOHN JESS	LEVEL II
2.	W AINE KODK RILL	LEVEL ASST

Rx Date/Time JUL-30-2002(TUE) 15:00
 07/30/2002 15:26 9074882711
 JUL-31-2002 01:14 FROM:

9074882711
 SLAYDEN

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TO: 4882711



Quality through Integrity

P.O. Box 221051
 Anchorage, Alaska 99522-1051
 Office: (907) 343-3967 • Fax (907) 343-7333

1218 Gilmore Trail
 Fairbanks, Alaska 99712
 Office: (907) 474-2088 • Fax (907) 474-2088

Radiography Report

Weld ID, No. Piece or Line No.	Film ID	ACC	REJ	Defect	Comments
CW - 17	A	✓			
	B	✓			
	C	✓			
CW - 18	A	✓			
	B	✓			
	C	✓			
CW - 19	A	✓			
	B	✓			
	C	✓			
CW - 20	A	✓			
	B	✓			
	C	✓			

Date 10/29/02 Report No. 1
 Page 2 of 3
 Customer NOA (Central Trans)
 Job Number 1
 Job Location FAIRBANKS, AK.
 Job Name DATA BB-01-C-0026
 Time at Job site N/A Driving Time N/A

TECHNIQUE INFORMATION

Pipe Diameter 1.5" Material Thickness .250
 Isotope 192 Curies 58 Exp. Time 4.00
 Source to Film Distance 22
 Source to Object Distance 20.1
 Physical Source Size 1.62 .100 x .110
 Effective Focal Spot .152
 Geometric Unsharpness Factor (UG) .014
 No. Film per cassette 1 No. of Exposures/Weld 2
 Penetrator .15 Shim .050
 Exposure Technique DSF - DMU
STAND OFF Super-Imposed
 Ph Screens Front DSF Back DSF
 Dev. Time 6:50 Dev Temp. 68°

DEFECT ABBREVIATIONS

P- Porosity SL- Slag Line TI- Tung. Incl.
 C- Crack CC- Crater Crack SI- Slag Inclusion
 CV- Concavity CX- Convexity
 IF- Incomplete Fusion IP- Incomplete Penetration
 BT- Burn Through IU- Internal Under cut
 EU- External Undercut
 IPD- Incomplete penetration due to High Low
 GP- Gas pocket SP- Spherical Porosity
 CP- Cluster Porosity WP- Wormhole Porosity
 HB- Hollow Bead

1. JOHN JAGS LEVEL II
 TECHNICIAN
 2. WAYNE KSELERITZ LEVEL ASST.
 TECHNICIAN

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QUALITY INSPECTION & TESTING INC.

3001 International Street • Fairbanks, Alaska 99701
Phone: (907) 479-4273 • Fax: (907) 479-8072

Radiography Report

SERIAL NO. OR PIECE NO.	Unit No.	Film No.	ACC	REL	Defect Code	REMARKS
1" LINE	SW-224	X	✓		2	OK - A
		X	✓			- B
	SW-3081	X	✓			
		X	✓			

DATE	7.9.02	
RADIOGRAPHY REPORT NO.	201	
PAGE	1	OF 1
Customer	N.D.E. CONSULTANTS	
Address		
Job Location		
Customer's P.O. No.	JA No. 2-1112	
Item Description		
Customer's Part No.	2. Braid 100% X	
Part of Drawing No.		

WORK SUMMARY		
Amount	Item Description	Other Use
4	Total Hours	
	Inspected Hours	Standby
	PL Photo Width	In. Tr.
2	Ex. Pipe Width	2.38"
4	Tube	3.5" x 10" Type T
	Flare	Type O

TECHNICAL DATA	
Inspection Specifications	ASME II
Acceptance Criteria (ASME)	B.3.1
RT Procedure No.	2.15
Single Wall Viewing (SWV)	<input checked="" type="checkbox"/>
Double Wall Viewing (DWM)	<input type="checkbox"/>
Single Wall Exposure (SWE)	<input type="checkbox"/>
Double Wall Exposure (DWE)	<input checked="" type="checkbox"/>
Physical Source Size	106" X 110" Effective Focal Spot
SFD	24" Source to Object
Material Thickness	2.56" Type Material
Geometric Unsharpness (Ug)	0.17
No. of Film per Cassette	1
Permeability	15" Skin
Viewing: Single	0.185" Superimposed
Ph Screens Used	0.10
Exposure Time (seconds)	1.00

ABBREVIATION OF WELDING DEFECTS		
P - Porosity	SL - Slag Lines	T1 - Tungsten Inclusion
C - Crack	SI - Slag Inclusions	CV - Root Concavity
IF - Incomplete Fusion	BT - Burn Through	CC - Root Convexity
UP - Incomplete Penetration	UC - Undercut	CA - Crater

ABBREVIATION OF WELDING DEFECTS		
ACC - Accumulation of Circumferential	AP - Axial Porosity	GP - Gas Pocket
IP - Inadequate Penetration	CP - Cluster Porosity	SP - Spalled Porosity
IPC - Inadequate Penetration due to High-Low	WP - Wormhole Porosity	MP - Molten Metal
IC - Internal Cracks	CP - Crater	CC - Crater Crack
IF - Incomplete Fusion	UC - Undercut	SI - Internal Undercut
IFD - Incomplete Fusion due to Cold Lap	BT - Burn Through	EU - External Undercut
BT - Burn Through	GI - Exposed Slag Inclusions	
GI - Exposed Slag Inclusions	BI - Isolated Slag Inclusions	

1. J.C. GROSS	LEVEL	T
TECHNICIAN		
2. J.C. GROSS	LEVEL	II
TECHNICIAN		
3. J.C. GROSS	LEVEL	II
TECHNICIAN/INTERPRETER		
4. CUSTOMER'S SIGNATURE	LEVEL	

Q.I.T. assumes no responsibility for losses of any kind which are the result of decisions of judgement or interpretation.

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QUALITY INSPECTION & TESTING INC.

3001 International Street • Fairbanks, Alaska 99701
Phone: (907) 479-4273 • Fax: (907) 479-8072

Radiography Report

SERIAL NO. OF PROCESS	Weld No.	Film No.	ACC	RPA	Exposure Data	REMARKS
UDKXATE	CW-27	A	/			
		B	/			
		C	/			
	CW-28	A	/			
		B	/			
		C	/			
	CW-29	A	/			
		B	/			
		C	/			
	CW-30	A	/			
		B	/			
		C	/			

DATE <u>7-12-03</u>		
RADIOGRAPHY REPORT NO. _____		
PAGE <u>1</u>	OF <u>1</u>	
Customer <u>N.D.E. CONSULTANTS INC.</u>		
Address _____		
Job Location <u>ET GAINING PLANT</u>		
Customer's P.O. No. _____	Job No. _____	
Part Description _____		
Examination: Partial _____	100% <u>X</u>	
Part or Drawing No. _____		
WORK SUMMARY		
Amount <u>4</u> CT	Item Description _____	
Total Hours _____	Station _____	
Ex. Film Width _____ in. Dia. _____	_____	
Ex. Film Width <u>3.50</u> in. Dia. <u>1.5</u>	_____	
Ex. Film Width <u>3.5</u> in. Dia. <u>1.5</u>	_____	
Ex. Film Width _____ in. Dia. _____	_____	
TECHNOLOGICAL DATA		
Inspection Specifications <u>ASME III</u>		
Acceptance Standard Code <u>ASME III</u>		
RT Procedure No. <u>1.1-1.3</u>	Shielding Method (R99) _____	
Single Wall Thickness (SWT) <input type="checkbox"/>	Double Wall Thickness (DWT) <input type="checkbox"/>	
Single Wall Exposure (SWE) <input type="checkbox"/>	Double Wall Exposure (DWE) <input type="checkbox"/>	
Physical Source Size <u>1.00" x 1.10"</u>	Effective Focal Spot <u>1.00"</u>	
SFD <u>2.4"</u>	Source to Object <u>21.41"</u>	
Unleaded Thickness <u>2.000"</u>	Type Material <u>CF</u>	
Geometric Unsharpness (Ug) <u>0.15</u>	_____	
No. of Film per Cassette <u>1</u>	Penetration <u>15</u> mm <u>0.23"</u>	
Welding: Single <u>AW</u>	Superimposed <u>X</u>	
Pre Screen Filter <u>1.000"</u>	Screen <u>Back</u> <u>0.10"</u>	
Exposure Time (min) _____	Dev. Time <u>5 min</u>	
ABBREVIATION OF WELDING DEFECTS		
IP - Porosity	CL - Slag Lines	TI - Trapped Inclusion
CS - Crack	SI - Slag Inclusions	CV - Root Concavity
IF - Incomplete Fusion	BT - Burn Through	CR - Root Cracks
IP - Incomplete Penetration	UC - Undercut	OC - Oxidation
ABBREVIATION OF WELDING DEFECTS		
API STANDARD		
AG - Accumulation of Discontinuity	GP - Gas Pocket	
IP - Incomplete Penetration	SP - Spherical Porosity	
IPG - Inadequate Penetration due to High-Low	CP - Cluster Porosity	
IC - Internal Concavity	WP - Wormhole Porosity	
IF - Incomplete Fusion	HB - Hot Spot	
IPG - Incomplete Fusion due to Cold Lap	C - Crack	
BT - Burn Through	CC - Crater Crack	
ESI - Elongated Slag Inclusions	UI - Internal Undercut	
ISI - Isolated Slag Inclusions	EU - External Undercut	

1. <u>J.C. BARR</u> <u>TECHNICIAN</u> LEVEL <u>2</u>
2. <u>L.C. CORSE</u> <u>TECHNICIAN</u> LEVEL <u>2</u>
3. <u>J.C. BARR</u> <u>TECHNOLOGICAL FILTER</u> LEVEL <u>2</u>
4. _____ CUSTOMER'S SIGNATURE LEVEL _____

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